

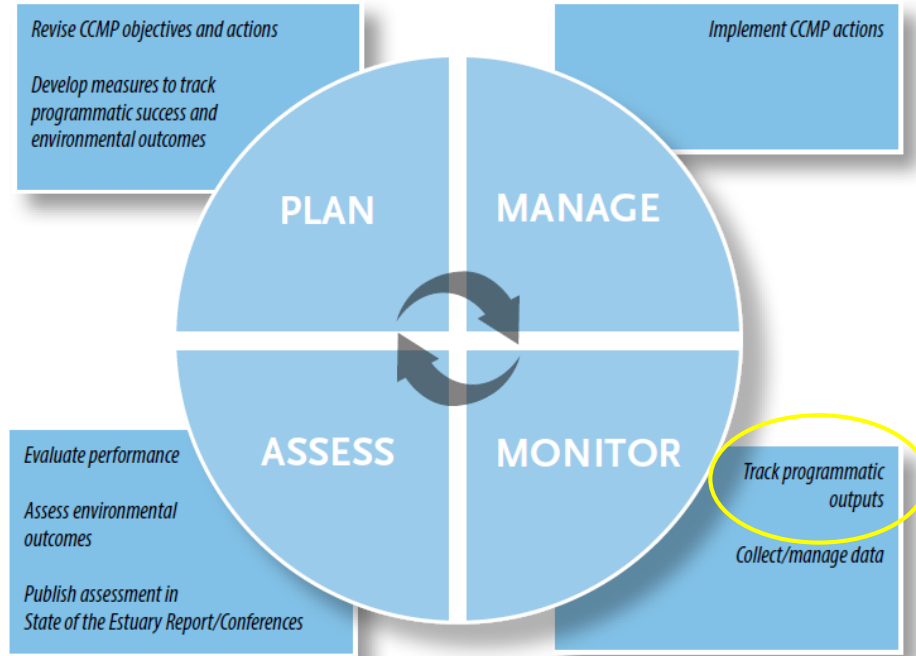


A regional collaborative blueprint for the future of the Estuary

Where do we want to be in 2050 and what can we do in the next five years to get there?



Tracking Progress - Performance Measures



**Programmatic
Outputs**

ACTION



The language of the action itself, describing the type of action (such as protect, improve, develop), the object of the action (such as habitats, monitoring programs, communities) and any key qualifiers or targets (such as watershed-scale, nature-based, multi-benefit).

13

The action description provides a slightly expanded, but less precise in intent, version of the action, including additional narrative or details.

TASK X-1 Specific tasks to be accomplished over the next five years to support the action. Task language is among the most carefully chosen language in each action. Tasks describe clear concise "to do" items, and often the context in which the task should take place. Tasks also reflect the consensus building and attention to detail of the committees that crafted each task.

BY 2020 Clear milestones with associated dates to track progress in advancing the action. Milestone years reflect the entire planning horizon of the CCMP, from 2016-2021.

TASK X-2 Most actions include multiple tasks. Some tasks occur in a logical progression, from collecting data or information or building consensus to making a management decision or creating a plan based on that information. Other actions have multiple tasks that address the variety of geographic areas or gaps in achieving a comprehensive action.

BY 2016 A single year milestone means the task should be completed by the end of that year.

BACKGROUND

The background section provides supporting information to further explain the action, why it is a priority, and how the tasks advance the action. It includes information such as the planning context or scientific basis of the action, as well as its connection or relevance to other efforts, plans or programs.

OWNERS

Owners of the tasks are entities that have agreed to play a key role in advancing tasks either as implementers, trackers, conveners, or stewards. Each owner is assigned specific tasks, as numbered.

COLLABORATING PARTNERS

Collaborating partners is a list key entities, in addition to the owners, engaged in accomplishing the action. This list describes the most central partners, but may not include all possible partners associated with a collaborative action. Collaborating partners represent organizations that might implement, champion, inform, advise or provide scientific or technical expertise in support of the action, tasks, and milestones.

NEXUS

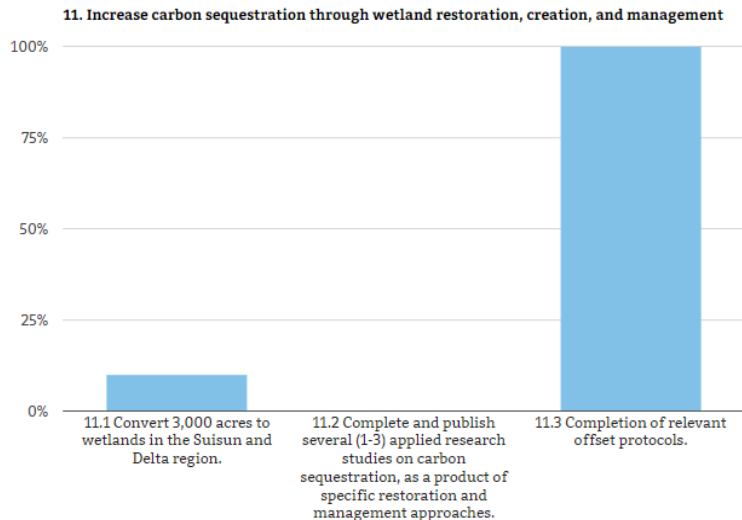
While the suite of 32 actions together represent an integrated comprehensive approach, the Nexus calls attention to core connections between specific actions, goals and objectives.

MILESTONE/OUTPUT

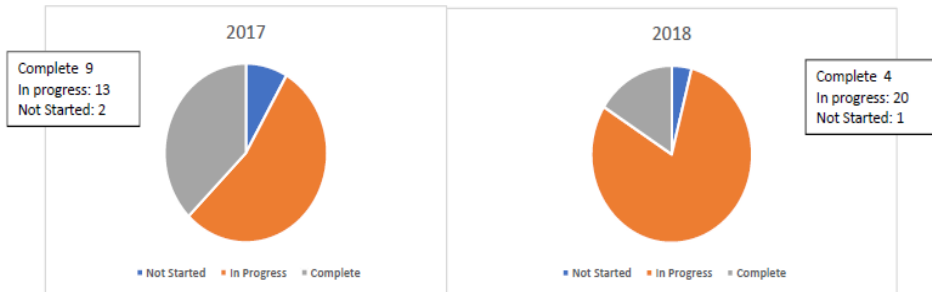
MILESTONE/OUTPUT

▸ **Action 10: Increase the efficacy of predator management**

▸ **Action 11: Increase carbon sequestration through wetland restoration, creation, and management**



Estuary Blueprint 2017 and 2018 Task Status Updates
May 23, 2018

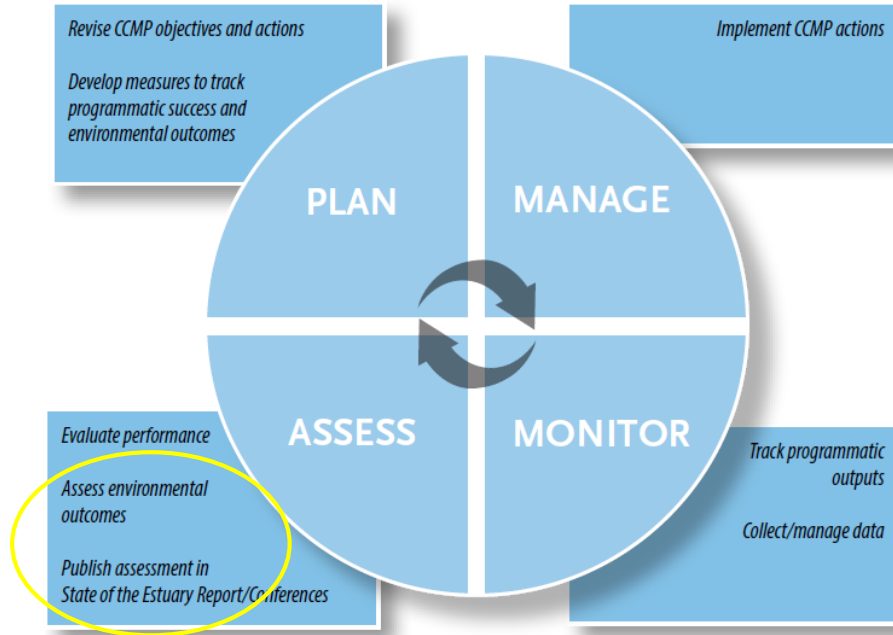


▸ **Action 12: Restore watershed connections to the Estuary to improve habitat, flood protection and water quality**

▸ **Action 13: Manage sediment on a regional scale and advance beneficial reuse**

Tracking Progress - Performance Measures

Environmental Outcomes



ESTUARY HEALTH 2015



WATER

BAY
STATUS TREND

DELTA
STATUS TREND

AT-A-GLANCE



SAFE FOR SWIMMING



Conditions are excellent at most Estuary beaches most of the time. Conditions have been poor at 7% of beaches in summer, and 27% of beaches in wet weather at times during recent years.



SAFE FOR AQUATIC LIFE

ESTUARY - WIDE



Estuary water quality is much better than 40 years ago, but the rate of improvement has slowed. Mercury, invasive species, pesticides, and trash are still problems. Improvement has been achieved for PBDEs and copper. Many potentially harmful chemicals have yet to be assessed.



FISH SAFE TO EAT

ESTUARY - WIDE



Limited consumption of most popular Estuary fish species is advised due to contamination from two legacy pollutants (mercury and PCBs). Routine monitoring in place since 1994 has shown no declines in these contaminants.



FRESHWATER INFLOW

ESTUARY - WIDE



The amounts and variability of freshwater inflow to the Estuary have been substantially reduced, resulting in degradation of habitat conditions and ecological function in the Estuary.

HABITAT



OPEN WATER HABITAT



EELGRASS

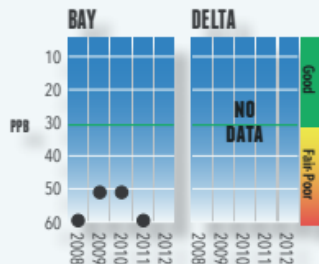


TIDAL MARSH

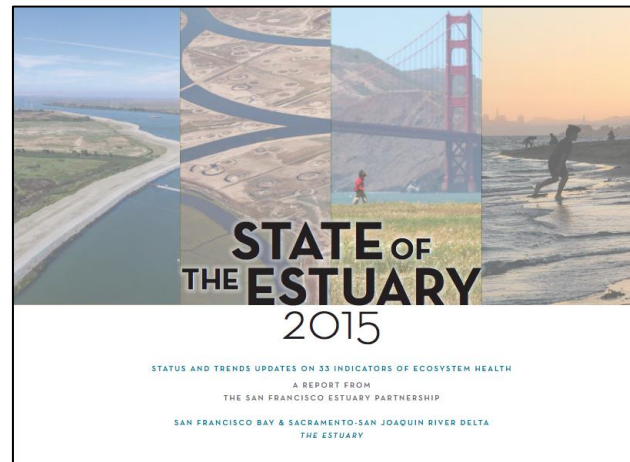
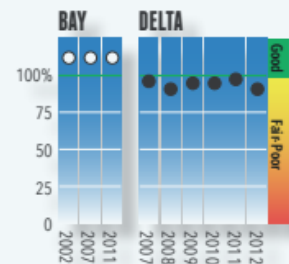


DETAILS

MERCURY PARTS PER BILLION IN SMALL FISH



WATER TOXICITY PERCENT OF SAMPLES THAT WERE NON-TOXIC TO INVERTEBRATES



State Of The Estuary 2015 Indicator	CCMP Goals	CCMP Objectives	CCMP Actions
WATER			
Safe For Swimming	Goal 1, 3	Objective a, b, i	Action 26
Safe For Aquatic Life	Goal 1, 3	Objective a, b, i	Action 24, 25, 27, 30
Fish Safe to Eat	Goal 1, 3	Objective a, b, i	Action 25, 27, 28
Freshwater Inflow	Goal 3	Objective a, b, h	Action 18
HABITAT			
Open Water Habitat	Goal 3	Objective h	Action 26
Eelgrass	Goal 1, 2	Objective a, d, e	Action 1, 2, 4, 5, 9, 12, 15, 17
Tidal Marsh Extent	Goal 1, 2	Objective a, d, e	Action 1, 2, 3, 11, 15, 16
WILDLIFE			
Benthic Invertebrates	Goal 2	Objective a, e	Action 9
Fish	Goal 2, 3	Objective a, e, h	Action 1, 5, 6, 7, 9
Harbor Seals	Goal 2, 3	Objective a, e, i	Action 27, 28, 31
Winter Waterfowl	Goal 1, 2	Objective a, b, e	Action 3, 6, 8
Breeding Waterfowl	Goal 1, 2	Objective a, b, e	Action 3, 6, 8, 10
Shorebirds	Goal 1, 2	Objective a, b, e	Action 3, 6, 10
Heron & Egrets	Goal 1, 2	Objective a, b, e	Action 3, 6, 10
Tidal Marsh Birds	Goal 1, 2	Objective a, b, e	Action 3, 6, 9, 10, 12
Ridgway's Rail	Goal 1, 2	Objective a, b, e	Action 3, 6, 9, 10, 12
PROCESSES			
Migration Space	Goal 1, 2, 4	Objective a, b, d, f, k	Action 2, 3, 4, 13, 15, 16, 17
Beneficial Floods	Goal 2	Objective d, e	Action 12, 26
Zooplankton as Food	Goal 1, 3	Objective a, b, c, h	Action 9, 18
Feeding Chicks	Goal 1	Objective b, e	Action 3, 6, 10
PEOPLE			
Urban Water Use	Goal 3	Objective g	Action 18, 19, 20, 21, 22, 23, 24
Recycled Water Use	Goal 3	Objective g	Action 19, 22, 23
Public Access/Trail Access	Goal 4	Objective j, k, l	Action 31
State Of The Estuary 2015 Emerging Indicator	CCMP Goals	CCMP Objectives	CCMP Actions
Pervasive Pesticides	Goal 1, 3	Objective b, i	Action 7, 27
Oyster Beds	Goal 1, 2	Objective a, d, e	Action 5, 14, 29
Woody Riparian	Goal 1, 2	Objective a, e	Action 7
Watersheds	Goal 1	Objective a	Action 1, 2, 24
Managed Ponds	Goal 1	Objective a	Action 6
Sediment	Goal 1, 2	Objective a, d, e	Action 13, 24
Invasions	Goal 1, 3	Objective a, b, i	Action 9, 19

- Assess status of outputs
- Assess status of trends of Indicators
- Compare over time (4-6 year cycles)
- Possible to adaptively manage even when linkages are non-linear or uncertain?

Benefits of Performance Measures

- Track progress
- Environmental Health and Management Response loop
- Accountability
- Outreach opportunity
- Increased engagement with shared results (public and partners)
- Increased funding

